

S E R V I C E N O T E

SUPERSEDES: None

**6812B AC Source / Analyzer**

**Serial Numbers:**

6811,12,13A 0000A00000 / 9999A99999  
 US00000000 / US99999999  
 6811B 0000A00000 / 9999A99999,  
 US00000000 / US38390480  
 6812B 0000A00000 / 9999A99999  
 US00000000 / US38390450  
 6813B 0000A00000 / 9999A99999  
 US00000000 / US38390284

**New A9 Output Assembly Not Compatible with old A7 Inverter Assembly.**

**Duplicate Service Notes:**

6811A-03  
 6811B-02  
 6812A-09  
 6813A-11  
 6841A-04  
 6842A-06  
 6812B-02  
 6813B-04

**To Be Performed By:** Agilent-Qualified Personnel

*Continued*

DATE: August 2001

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
<b>INFORMATION ONLY</b>		
AUTHOR: PS	ENTITY: 2100	ADDITIONAL INFORMATION:



**Parts Required:** See Below.

**Situation:**

With the magnetic cores removed from the cable on the A9 Output Assembly, the new A9 Output Assembly is no longer compatible with the older type A7 Inverter Assemblies. Reason: Additional inductance in the form of magnetic cores was added to the cable assembly to eliminate a destructive resonance problem. The new A7 Inverter Assembly has the additional inductance added in the form of a coil mounted on the printed circuit board. Therefore, if a new type A9 Output Assembly which lacks the inductance is used with an old type A7 Inverter Assembly, the required inductance will not be present and the new A9 Output assembly will be damaged (filter capacitors overheat).

See Action below if a new type A9 Output Assembly is to be used with the older type A7 Inverter Assembly.

**Action:**

If the A9 Output Assembly must be replaced with the newer type (see the table for applicable part numbers), first verify the type of A7 Inverter Assembly installed. If the A7 Inverter Assembly is NOT marked 5064-0110 or 5064-0050, the A7 Inverter Assembly must be replaced with the newer type.... OR the cable assembly with the magnetic cores (marked 06813-80005) attached to the old A9 Output Assembly can be re-used.

If the A7 Inverter Assembly must be replaced, replace with part number 5064-0110 for all models.

If the old cable assembly is to be re-used, note that a crimped-on device is used where the wires are soldered to the board. Carefully un-solder the wires from the circuit board so the crimp-ons are not lost or damaged. Similarly, remove the cable (no magnetic cores attached) from the new A9 Output Assembly and then solder the original cable into the new A9.

**Replacement Assembly Information:**

New A7 Inverter Assembly, All models: 5064-0110 (factory installed assembly is marked 5064-0050).

New A9 Output Assembly (model/opt dependent):

Model Number:	New A9 Assy:
6811A/B	5065-6920
6812A/B, 6813A/B 6841A, and 6842A	5065-6921
6811,12,13B Opt 026, and 6812A Opt J01	5065-6922
6813B Opt 019 and 6831B Opt 022	5065-6923

New Cable Assembly without magnetic cores for all models: 5080-2698